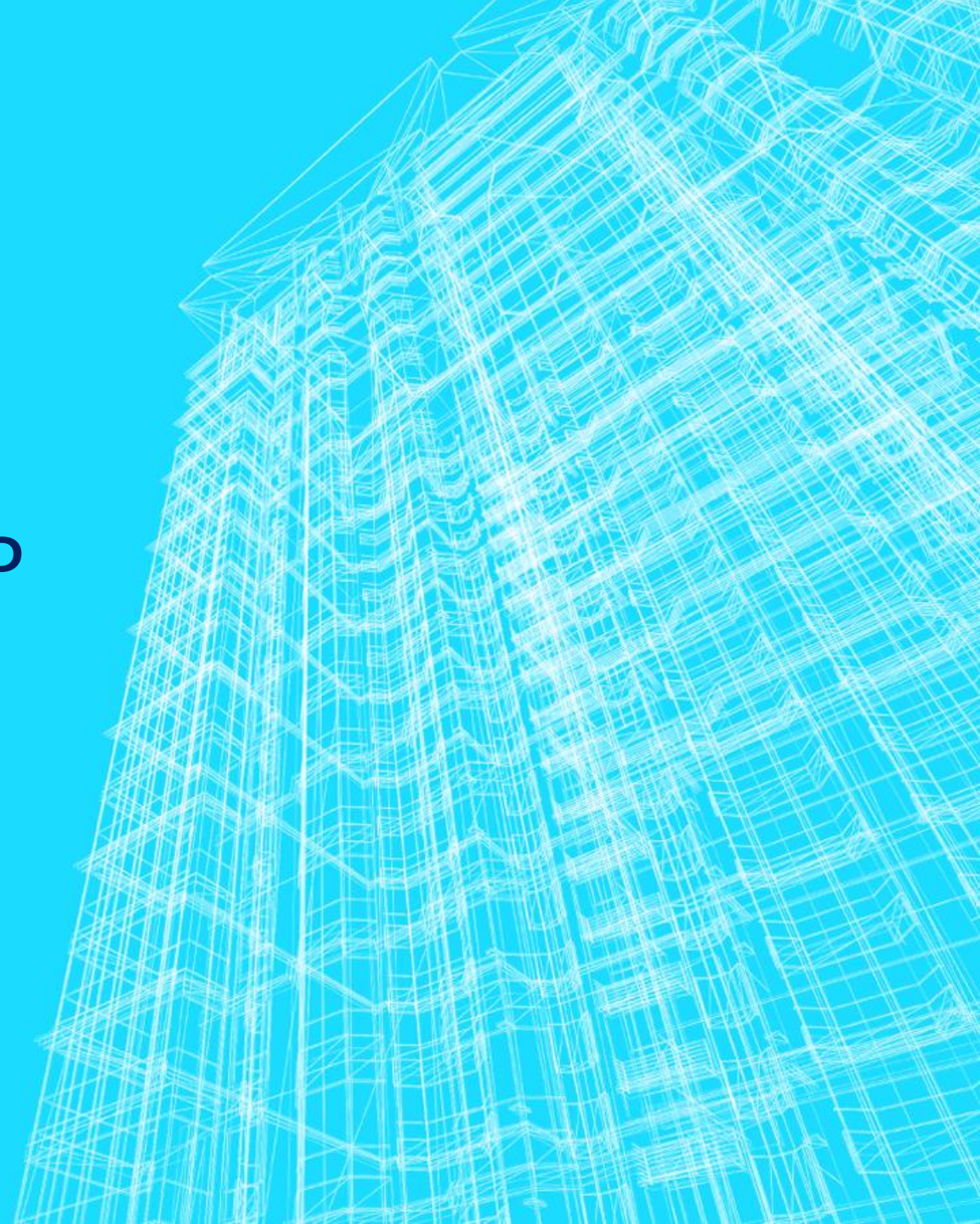


CONNECTING **YA** WITH THE SKILLED TRADES AND REGISTERED APPRENTICESHIP

**For: Education, Employment
& Earning Power**



INTRODUCTION

- **David Branson**

- Executive Director, Building and Construction Trades Council of South-Central WI



- **Terry Hayden**

- President, Wisconsin Pipe Trades Association (United Association or UA)





YA STUDENTS & SKILLED TRADES

Session Overview

- **Skilled Trades are Comprised of 15 International Unions**
 - Representing 23 Individual Crafts
- **Education, Employment, & Earning Power**
- **Advantages of Skilled-Trade Careers**
- **Registered Apprenticeship**
 - The Pathway into the Skilled Trades



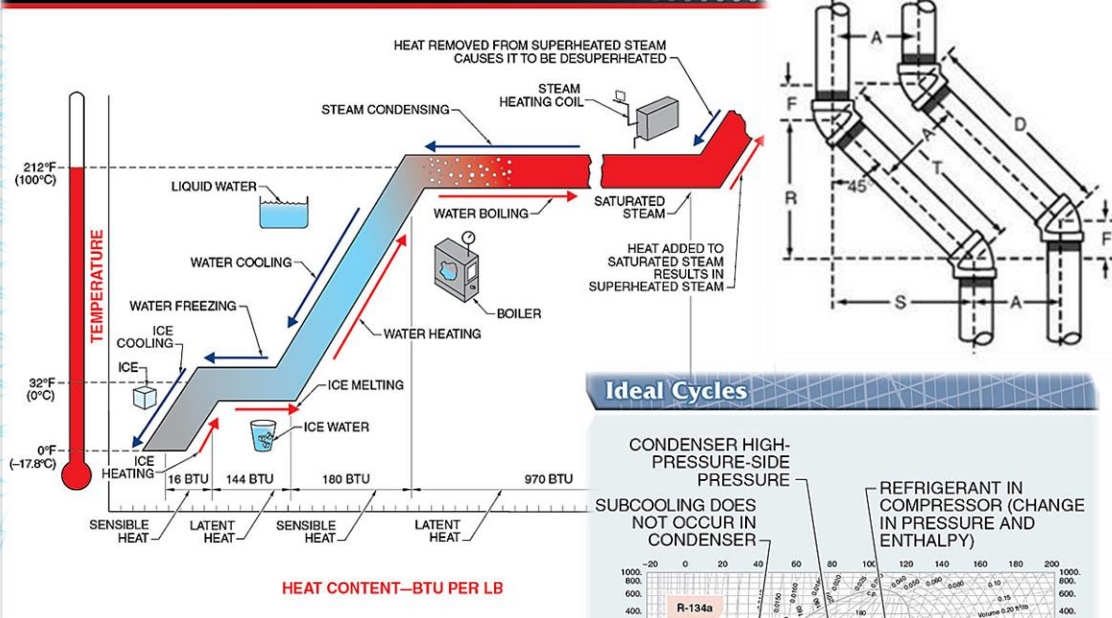
YA STUDENTS & SKILLED TRADES

Why are the Skilled Trades a Meaningful Career Path for STEM Students?

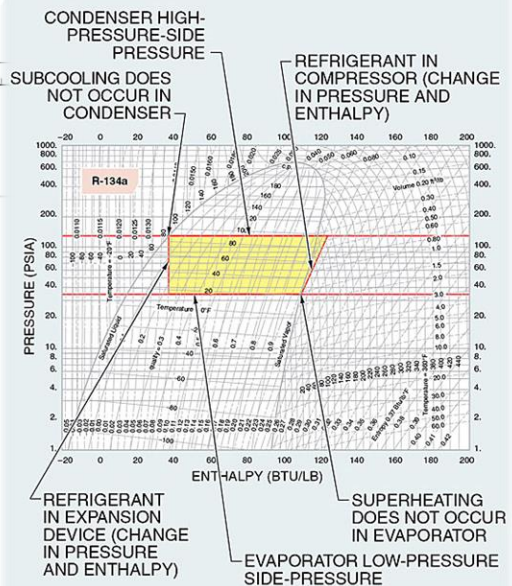
- **Science** = Applied Physics & Chemistry
- **Technology** = AutoCAD & Building Information Modeling
- **Engineering** = System Design & Installation
- **Math** = Applied Algebra, Geometry, & Trigonometry

YA STUDENTS & SKILLED TRADES

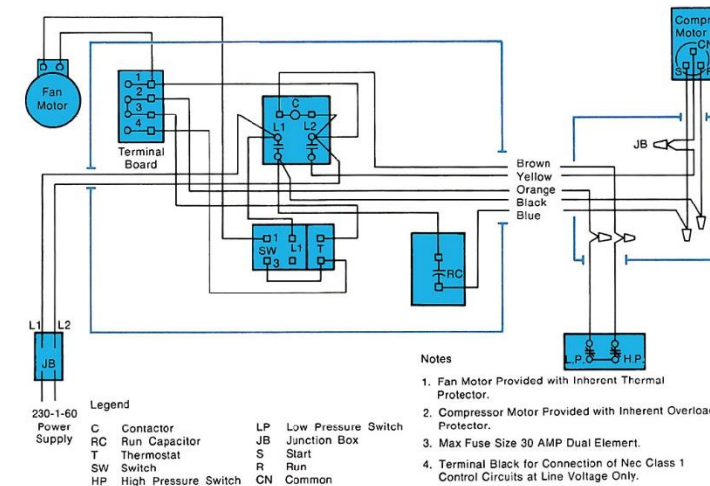
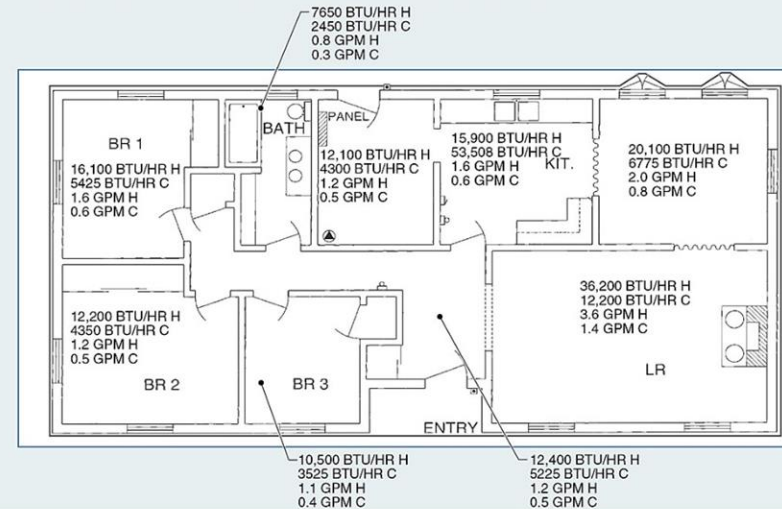
Examples of Change of State



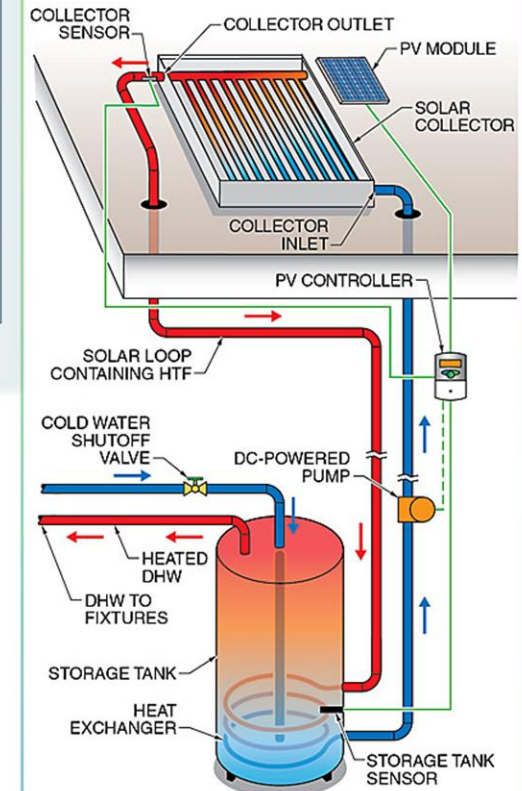
Ideal Cycles



Overlay with Heating and Cooling Loads



Photovoltaic (PV) Controllers





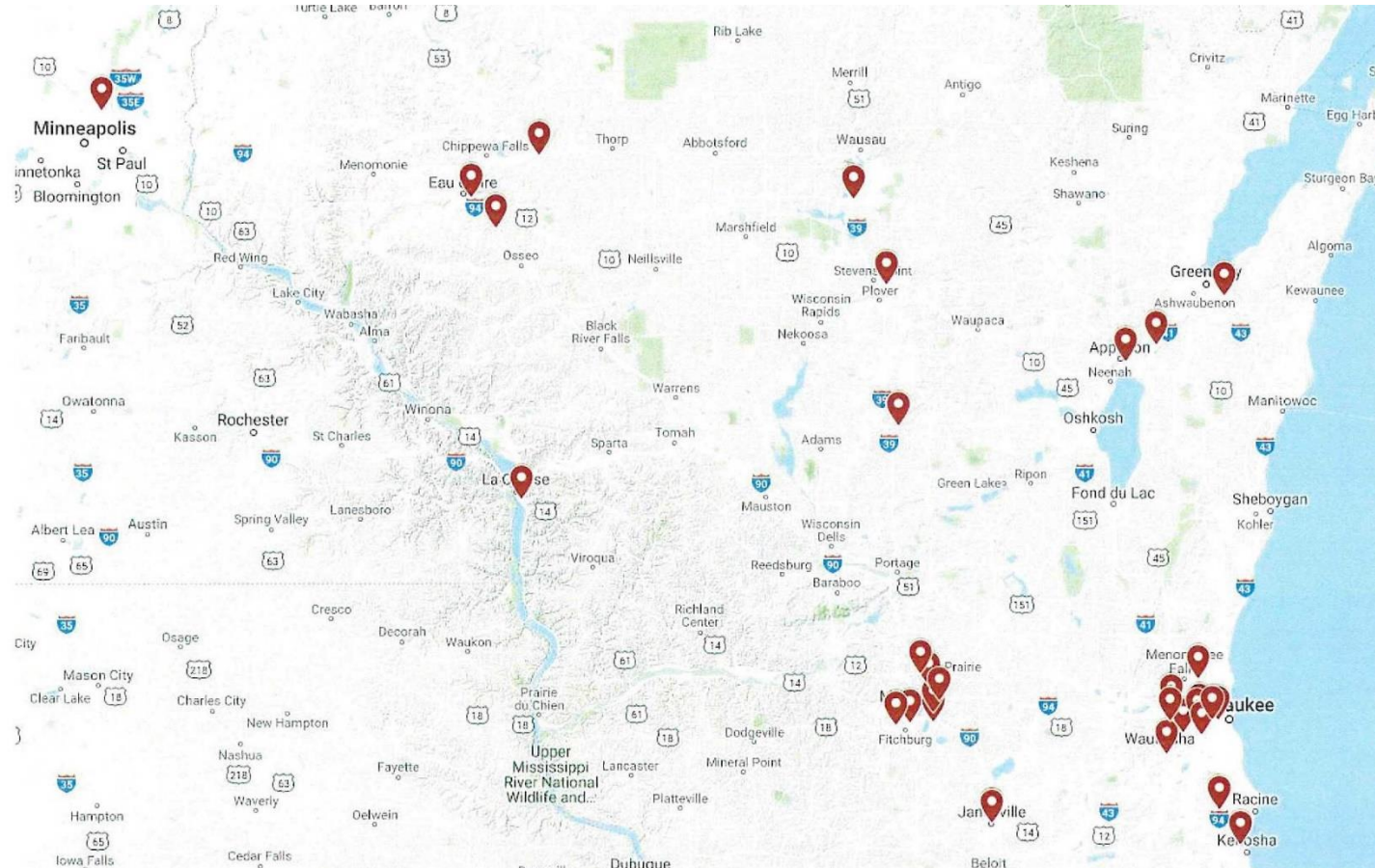
YA STUDENTS & SKILLED TRADES

Education

- Statewide Privately Funded Training Network
 - Over \$30 million dollars invested each year
- Affiliation with Wisconsin Technical College System
- Articulation with 2-Year and 4-Year College Degrees
 - WTCS Recognize Successful Completion of Many WI Apprenticeships as 39-credits Toward the 60-Credit Technical Studies Journey Worker Associate Degree
- Life-Long Education Opportunities
 - Journey Worker Training and Advanced Certifications

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Union Building Trades Training Centers





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Employment

- Building Trades Journey Worker Careers
 - **Journey Worker in one of 23 Individual Crafts**
- Building Trades Advanced Career Opportunities
 - **Jobsite Management** = Foreman, General Foreman, Superintendent, & Safety Director
 - **Mid-Management, Engineering & Sales** = Project Mgr., Estimator, Designer & Account Engineer
 - **Top-Level Management** = Contractor/Business Owner & Union Business Manager
 - **Educator** = Full-Time Instructor, Training Coordinator, & Training Director



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Earning Power

- Earn While you Learn as a Registered Apprentice
 - Apprentice Salary based on Percentage of Journey Worker Salary
 - Regular Salary Increases over the Apprenticeship Term
 - Free or Subsidized Tuition Costs
- Salary after Graduation (Journey Worker)
 - WTCS Apprenticeship Completion Report – Employment & Salary Data
 - 99% of 2017-18 Graduates Employed in Their Skilled Trade in WI
 - Median Salary for Construction Sector Apprentice Graduates = **\$83,818**



YA STUDENTS & SKILLED TRADES

Earning Power

- Advantages to Careers in the Skilled Trades
 - Challenging & Rewarding Workplace, w/ Many Opportunities for Growth
 - Variety in Working Tasks, Locations, and Conditions
 - Life-Long Education and Learning Opportunities
 - Industry Leading Wages
 - Job Security
 - Health Insurance and Retirement Savings that Follow You
 - Flexible Work Schedule
 - Privately Funded Training Centers



YA STUDENTS & SKILLED TRADES

Pathway

- What is Registered Apprenticeship?
 - Apprenticeship Starts with a Job!
 - Post-Secondary Education that is Registered with WI-DWD & US-DOL
 - Joint Apprenticeship Committee (JAC) Serves as Apprentice Sponsor
 - Combination of Related Instruction (Day and Night School) and Structured OJT
 - 3 to 5 Years in Length
 - Progressive Wage Scale
 - Earn While You Learn!



YA STUDENTS & SKILLED TRADES

Pathway

- Minimum Qualifications for Apprenticeship
 - 18 Years Old
 - High School Diploma or Equivalent
 - Passing Scores on Entrance Exams
 - Valid Drivers License
 - Physically Able to Perform the Trade
 - Other Requirements (varies by trade and region)

STEM STUDENTS & SKILLED TRADES

Pathway

- WI DWD – Bureau of Apprenticeship
 - www.wisconsinapprenticeship.org
- Building & Construction Trades Careers
 - <http://btrades.com/apprenticeships.php>
- WPTA/UA Careers
 - www.wipipetrades.org



STEM STUDENTS & SKILLED TRADES





STEM STUDENTS & SKILLED TRADES

Questions?

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- **Terry Hayden**

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